

AMENDMENTS TO THE CLAIMS

Claims

1. (Currently Amended) A method of transmitting in time slots in TDMA frames user data in bursts of GSM format, each burst comprising data portions separated by a training sequence, ~~wherein the method comprising transmitting data of a first user in a first data portion of a burst before the training sequence is used for and data of a first second user and in a second data portion of the burst after the training sequence is used for data of a second user.~~

2. (Currently Amended) The method of claim 1 ~~in which~~ including transmitting each data portion ~~is transmitted~~ in a sub time-slot allocated to a different user.

3. (Currently Amended) The method of claim 2 ~~in which~~ comprising transmitting user data ~~is transmitted~~ in each time slot in a burst structure, including transmitting user data ~~being transmitted~~ in each sub time slot in a corresponding burst structure.

4. (Currently Amended) The method of claim 3 in which ~~the user data is transmitted in each time slot in a burst structure having~~ has n bits, ~~and wherein the method including partitioning each time slot is partitioned into~~ m sub time

slots, and transmitting user data ~~being transmitted~~ in each sub time slot in a corresponding burst structure having n/m bits.

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5. (Previously Amended) The method of claim 3 in which the user data comprises speech.

6. (Previously Amended) The method of claim 1 in which the TDMA system is an EDGE packet switched network.

7. (Currently Amended) The method of claim 6 in which the TDMA system is a wireless system, ~~wherein~~ the method including encoding, in up-link, data from p users ~~is encoded~~ such that each forms $1/p$ of an RLC/MAC block, wherein the data from each user is encoded into a respective one of p sub-time-slots.

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8. (Currently Amended) The method of claim 7, ~~wherein~~ including transmitting the RLC/MAC block ~~is transmitted~~ over four TDMA frames.

9. (Currently Amended) The method of claim 1 including encoding ~~wherein~~ the user data ~~is encoded~~ into an RLC/MAC block for transmission, and transmitting the RLC/MAC block ~~being transmitted~~ in a sub-time-slot over a plurality of frames.

10. (Currently Amended) The method of claim 1 ~~in which~~ including encoding user data associated with at least two users ~~is encoded~~ into a single RLC/MAC block, and transmitting the portions of the RLC/MAC block associated with respective users ~~being transmitted~~ in respective sub-time-slots.

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11. (Currently Amended) The method of claim 1 ~~in which~~ including transmitting the user data ~~is transmitted~~ in each time slot in a burst structure having n bits, ~~and wherein~~ partitioning each time slot ~~is partitioned~~ into m sub time slots, and transmitting user data ~~being transmitted~~ in each sub time slot in a corresponding burst structure having n/m bits.

12. (Previously Added) The method of claim 11 in which the user data comprises speech.

13. (Currently Amended) The method of claim 12 in which the TDMA system is a wireless system, ~~wherein~~ the method including encoding, in up-link, data from p users ~~is encoded~~ such that each forms $1/p$ of an RLC/MAC block, wherein the up-link data from each user is encoded into a respective one of p sub-time-slots.

14. (Currently Amended) The method of claim 1, ~~wherein~~ including transmitting the RLC/MAC block ~~is transmitted~~ over four TDMA frames.

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